ELSEVIER

Journal of Alloys and Compounds 226 (1995) 251

Journal of ALLOYS AND COMPOUNDS

Author Index of Volume 226

Abdon, R.L., 10
Akiba, E., 75, 161
Alqasmi, R.A., 19
André, G., 113, 152
Andreev, S.V., 158
Angelini, E., 213
Aselage, T.L., 121

Baranov, N.V., 70
Baricco, M., 213
Baxendale, M., L1
Benedict, U., 143
Bertoncello, R., 213
Bottino, C., 232
Brabers, J.H.V.J., 113, 152
Bros, J.P., 197
Buscaglia, V., 232
Buschow, K.H.J., 100, 107, 113, 152

Casarin, M., 213
Cheng, Z., 51, 65
Cizeron, G., 208
Czopnik, A., 107

Da Cunha, S.F., 126
Darracq, S., 143
Decaudin, B., 208
Djega-Mariadassou, C., 208

Edgley, D.S., 170
Emin, D., 121

Fabbricatore, P., 232
Fernández Guillermet, A., 174
Filoti, G., 87
Fischer, P., 1
Fort, D., 190
Fuming, Y., 139

Gaune-Escard, M., 197
Gemme, G., 232
Gingl, F., 1, 31
Glisenti, A., 213
Gong, H., 51, 65
Granozzi, G., 213
Grechnev, G.E., 107
Gschneidner, Jr., K.A., 190
Guanghui, R., 139
Guillot, M., 131
Guo, H., 51

Haddad, R., 197
Harris, I.R., 170
Hartjes, K., 81
Heathman, S., 143
Hu, B.-P., 55
Hu, J., 55
Huang, Y.Z., 102
Hughbanks, T., 10

Iijima, Y., 185
Inoue, M., 146
Inui, T., 146
Ishibashi, H., 161

Jeitschko, W., 81
Jingkui, L., 139
Jung, J.-H., 166

Kemmler-Sack, S., 87
Kesavan, T.R., 46
Köhler, J., 24
Kominami, H., 146
Korznikova, G.F., 158
Kremer, R.K., 24
Kudrevatykh, N.V., 158
Kuriyama, N., 203
Kwei, G.H., 121

Lai, W.-Y., 55
Lawson, A.C., 121
Le Bihan, T., 143
Lee, J.-Y., 166
Lee, K.-Y., 166
Legendre, B., 222
Liang, B., 51, 65
Liu, Z.-K., 33
Llanos, J., 136
Lobanov, B.N., 158
Lundström, T., 5

Marcolin, D., 213
Mattenberger, K., 143
Mishima, T., 203
Miyamura, H., 203
Mordkovich, V.Z., L1
Morgant, G., 222
Morosin, B., 121
Mouani, D., 222
Mujica, C., 136
Mulder, F.M., 100
Musenich, R., 232

Ogura, T., 161
Ohki, Y., L1
Otsu, H., 146

Pamyatnykh, L.A., 158
Panfilov, A.S., 107
Parodi, P., 232
Parodi, R., 232
Pecharsky, V.K., 190
Pereliaev, V.A., 24
Pirogov, A.N., 70
Pöttgen, R., 59
Pushkarsky, V.I., 158

Rama Rao, K.V.S., 46
Ramesh, R., 46
Reibenspies, J., 10
Rodríguez-Carvajal, J., 113, 152
Rosenberg, M., 87

Sakai, T., 203
Schobinger-Papamantellos, P., 113, 152
Shen, B., 51, 65
Shveikin, G.P., 24
Simon, A., 24
Sinan, S.A., 170
Spanu, V., 87
Steudtner, C., 87
Stewart, G.R., 155
Sundman, B., 33
Susa, K., 161
Svechkarev, I.V., 107
Svensson, G., 24
Szytuła, A., 131

Taguchi, O., 185
Takahashi, K., 203
Takeuchi, A.Y., 126
Teplykh, A.E., 70
Thiel, R.C., 100
Thomas, S.G., 155
Tomkowicz, Z., 131
Tsukahara, M., 203
Tyutyunnik, A.P., 24

Uehara, I., 203

Vogt, O., 143

Wang, C., 10
Wang, F., 51, 65
Wang, K.-Y., 55
Wang, Y.-Z., 55
Wang, Z.-X., 55
Weihua, T., 139
Wittke, O., 136
Wu, F., 102

Yan, Q., 51
Yanming, Z., 139
Yartys', V.A., 1
Yongquan, G., 139
Yoshida, M., 75, 161
Yoshimura, S., L1
Yu, Y., 5
Yvon, K., 1, 31

Zach, R., 131
Zavaliy, I.Yu., 1
Zhan, W., 65
Zhang, B., 232
Zhang, J., 51, 65
Zhang, S., 51, 65
Zhang, W., 33
Zhao, R., 55
Zhao, Z.X., 102
Zhu, W.J., 102
Zubkov, V.G., 24

Elsevier Science S.A.

ELSEVIER

Journal of Alloys and Compounds 226 (1995) 253–256

Journal of ALLOYS AND COMPOUNDS

Subject Index of Volume 226

A.c. susceptibility
magnetic properties of RAgSn (R≡Nd, Tb, Ho), TbPdSn and TbAgGa compounds in high magnetic fields, 131
Activation
the activation mechanism of Zr-based alloy electrodes, 166
Amorphous alloys
an X-ray photoelectron spectroscopy study of the surface composition of $Co_xFe_{80-x}Si_{10}B_{10}$ metallic glasses, 213
Amorphous ribbons
new structural state in melt-spun Nd–Fe–B alloys, 158
Anisotropy
effects of Ga substitution in Y_2Fe_{17} compounds on the magnetocrystalline anisotropy, 51
structure and magnetic properties of $R_2Fe_{16}SiC_2$ (R=Y, Sm, Gd, Tb, Dy, Ho, Er and Tm) compounds prepared by arc-melting, 65
Arc melting
structure and magnetic properties of $R_2Fe_{16}SiC_2$ (R=Y, Sm, Gd, Tb, Dy, Ho, Er and Tm) compounds prepared by arc-melting, 65

Binary systems
thermodynamic assessment of the Co–Fe–Gd systems, 33
Boron carbides
neutron powder diffraction refinement of boron carbides nature of intericosahedral chains, 121

Carbide hyperfine parameters
structural study of M50 steel carbides, 208
Cast alloys
effect of additions of Nb to Sm_2Fe_{17}-based cast alloys, 170
CBC chains
neutron powder diffraction refinement of boron carbides nature of intericosahedral chains, 121
Cesium
synthesis of new cesium–oxygen graphite intercalation compounds, L1
Chalcogenides
phase transformation of the monochalcogenides SmX (X≡S, Se, Te) under high pressure, 143
Corrosion
an X-ray photoelectron spectroscopy study of the surface composition of $Co_xFe_{80-x}Si_{10}B_{10}$ metallic glasses, 213
Crack
the activation mechanism of Zr-based alloy electrodes, 166
Crystal growth
crystal growth and structural investigation of the new quaternary compound $Mo_{1-x}Cr_xAlB$ with $x=0.39$, 5
Crystal structures
hydrogenation of Zr_6FeAl_2 and crystal structure of $Zr_6FeAl_2D_{10}$, 1
comment on the crystal structure of $HfRuD_{3.6}$, 31
preparation, crystal structure and properties of $RuIn_3$, 59
crystal structures and magnetic properties of the lanthanoid nickel antimonides LnNiSb (Ln=La–Nd, Sm, Gd–Tm, Lu), 81
new intermetallic compounds RCo_9Si_4 (R=Pr, Nd) with a tetragonal $NaZn_{13}$-derivative structure, 139
crystal structure, hydrogen absorbing properties and electrode performances of Sc-based Laves phase alloys, 161
Cuprates
new layered cuprates $CaBa_2R_2Cu_2Ti_2O_{12}$ and $(R,Ce)_2Ba_2(R,Ca)_2Cu_2Ti_2O_{14}$ (R=Sm,Gd), 102
Curie temperature
effects of Ga substitution in Y_2Fe_{17} compounds on the magnetocrystalline anisotropy, 51
Curie temperature pressure-dependent
conduction-electron-mediated exchange coupling in heavy rare earth metal compounds RM and RM_3, 107

$DgAl_2Ge_2$
^{155}Gd Mössbauer spectroscopy and magnetic properties of $GdAl_2Ge_2$, 100
Diamond anvil cell
phase transformation of the monochalcogenides SmX (X≡S, Se, Te) under high pressure, 143
Doping
doping of UPt_4Au and comparison with $CeCu_2Si_2$ and UBe_{13}, 155
Dysprosium
solid state electrotransport purification of dysprosium, 190

Electrical characteristics
synthesis and structural, magnetic and electrical characterisation of the reduced oxoniobates $BaNb_8O_{14}$, $EuNb_8O_{14}$, $Eu_2Nb_5O_9$ and Eu_xNbO_3 ($x=0.7$, 1.0), 24
Electrical resistivity
preparation, crystal structure and properties of $RuIn_3$, 59
magnetic resistivity and Kondo effect in $Ce(Al_{1-x}Ga_x)_2$ compounds, 126
Electrode performances
crystal structure, hydrogen absorbing properties and electrode performances of Sc-based Laves phase alloys, 161
Electrodes
the activation mechanism of Zr-based alloy electrodes, 166
Enthalpy of formation
enthalpy of formation of the [Co+Ga+In] liquid alloy, 197

Gallium
study of the phase equilibria in the ternary gold–gallium–tellurium system, 222
^{155}Gd Mössbauer spectroscopy
^{155}Gd Mössbauer spectroscopy and magnetic properties of $GdAl_2Ge_2$, 100
Gibbs energy modelling
phase diagram and thermochemical properties of the Zr–Ta

Elsevier Science S.A.

system. An assessment based on Gibbs energy modelling, 174
Glycol
glycothermal synthesis of rare earth aluminium garnets, 146
Glycothermal method
glycothermal synthesis of rare earth aluminium garnets, 146
Gold
study of the phase equilibria in the ternary gold–gallium–tellurium system, 222
Graphite intercalation
synthesis of new cesium–oxygen graphite intercalation compounds, L1

Hafnium
$Hf_{2.64}Zr_{0.36}Te_4$ and $M^I_xZr_3Te_4$ (M^I = Na, K, Rb, Cs), new compounds of the Nb_3Te_4-structure type, 10
Heavy fermion systems
doping of UPt_4Au and comparison with $CeCu_2Si_2$ and UBe_{13}, 155
High field magnetization measurements
magnetic properties of RAgSn (R ≡ Nd, Tb, Ho), TbPdSn and TbAgGa compounds in high magnetic fields, 131
High pressure
phase transformation of the monochalcogenides SmX (X ≡ S, Se, Te) under high pressure, 143
Hydrogen absorption
hydrogen absorption studies in $Zr_{0.4}Ho_{0.6}Fe_2$, 46
hydrogen absorbing properties of ScM_2 Laves phase alloys (M = Fe, Co and Ni), 75
crystal structure, hydrogen absorbing properties and electrode performances of Sc-based Laves phase alloys, 161
Hydrogenation
hydrogenation of Zr_6FeAl_2 and crystal structure of $Zr_6FeAl_2D_{10}$, 1

Intermetallic compounds
new intermetallic compounds RCo_9Si_4 (R = Pr, Nd) with a tetragonal $NaZn_{13}$-derivative structure, 139
Iron distribution
quasi-reversible transformations in the $((Bi, Pb)O)_2$-$Sr_{2-x}Ca_xBi_{n-1}Fe_nO_{3n+1+z}$ ($x = 0$ and $x = 1$) system and their influence on the iron distribution and magnetic properties of the arising phases, 87
Iron substituted carbide
structural study of M50 steel carbides, 208

Kinetics
hydrogen absorption studies in $Zr_{0.4}Ho_{0.6}Fe_2$, 46
Kondo effect
magnetic resistivity and Kondo effect in $Ce(Al_{1-x}Ga_x)_2$ compounds, 126

Lanthanoid nickel antimonides
crystal structures and magnetic properties of the lanthanoid nickel antimonides LnNiSb (Ln = La–Nd, Sm, Gd–Tm, Lu), 81
Lanthanum
the activation mechanism of Zr-based alloy electrodes, 166
Laves phase alloys
hydrogen absorbing properties of ScM_2 Laves phase alloys (M = Fe, Co and Ni), 75
crystal structure, hydrogen absorbing properties and electrode performances of Sc-based Laves phase alloys, 161
Linear muffin tin orbitals
conduction-electron-mediated exchange coupling in heavy rare earth metal compounds RM and RM_3, 107
Liquidus surface
enthalpy of formation of the [Co + Ga + In] liquid alloy, 197

M50 steel
structural study of M50 steel carbides, 208
Magnetic characterisation
synthesis and structural, magnetic and electrical characterisation of the reduced oxoniobates $BaNb_8O_{14}$, $EuNb_8O_{14}$, $Eu_2Nb_5O_9$ and Eu_xNbO_3 ($x = 0.7$, 1.0), 24
Magnetic ordering
a neutron diffraction study of the magnetic ordering of $TmMn_6Ge_6$, 113
a neutron diffraction study of the magnetic ordering of $LuMn_6Ge_6$, 152
Magnetic phase diagrams
magnetic state of Dy_3Co, 70
magnetic properties of RAgSn (R ≡ Nd, Tb, Ho), TbPdSn and TbAgGa compounds in high magnetic fields, 131
Magnetic properties
magnetic properties of $Gd_xDy_{1-x}Fe_{11.35}Nb_{0.65}$ compounds and their nitrides, 55
structure and magnetic properties of $R_2Fe_{16}SiC_2$ (R = Y, Sm, Gd, Tb, Dy, Ho, Er and Tm) compounds prepared by arc-melting, 65
crystal structures and magnetic properties of the lanthanoid nickel antimonides LnNiSb (Ln = La–Nd, Sm, Gd–Tm, Lu), 81
quasi-reversible transformations in the $((Bi, Pb)O)_2$-$Sr_{2-x}Ca_xBi_{n-1}Fe_nO_{3n+1+z}$ ($x = 0$ and $x = 1$) system and their influence on the iron distribution and magnetic properties of the arising phases, 87
^{155}Gd Mössbauer spectroscopy and magnetic properties of $GdAl_2Ge_2$, 100
Magnetic resistivity
magnetic resistivity and Kondo effect in $Ce(Al_{1-x}Ga_x)_2$ compounds, 126
Magnetic susceptibility
preparation, crystal structure and properties of $RuIn_3$, 59
Magnetisation
effects of Ga substitution in Y_2Fe_{17} compounds on the magnetocrystalline anisotropy, 51
Magnetism
doping of UPt_4Au and comparison with $CeCu_2Si_2$ and UBe_{13}, 155
Magnetoresistance
magnetic state of Dy_3Co, 70
Magnetovolume effects
conduction-electron-mediated exchange coupling in heavy rare earth metal compounds RM and RM_3, 107
Melt spinning
new structural state in melt-spun Nd–Fe–B alloys, 158
Metal hydride electrodes
metal hydride electrodes based on solid solution type alloy TiV_3Ni_x ($0 \leqq x \leqq 0.75$), 203
Metamagnetic phase transitions
magnetic state of Dy_3Co, 70
Microcrystals
glycothermal synthesis of rare earth aluminium garnets, 146
Microstructure
new structural state in melt-spun Nd–Fe–B alloys, 158

Neutron diffraction
a neutron diffraction study of the magnetic ordering of $TmMn_6Ge_6$, 113
a neutron diffraction study of the magnetic ordering of $LuMn_6Ge_6$, 152

Neutron refinement
neutron powder diffraction refinement of boron carbides nature of intericosahedral chains, 121
Niobium
effect of additions of Nb to Sm_2Fe_{17}-based cast alloys, 170
nitridation of niobium–46 wt.% titanium alloy in nitrogen at 1300 °C, 232
Nitridation
nitridation of niobium–46 wt.% titanium alloy in nitrogen at 1300 °C, 232
Nitrides
magnetic properties of $Gd_xDy_{1-x}Fe_{11.35}Nb_{0.65}$ compounds and their nitrides, 55

Oxygen
synthesis of new cesium–oxygen graphite intercalation compounds, L1

Palladium
thermodynamics of solid Pd–Sr alloys, 19
P–C–T isotherms
hydrogen absorption studies in $Zr_{0.4}Ho_{0.6}Fe_2$, 46
Phase diagrams
phase diagram and thermochemical properties of the Zr–Ta system. An assessment based on Gibbs energy modelling, 174
Phase equilibria
study of the phase equilibria in the ternary gold–gallium–tellurium system, 222
Pressure–composition isotherms
hydrogen absorbing properties of ScM_2 Laves phase alloys (M = Fe, Co and Ni), 75
Purification
solid state electrotransport purification of dysprosium, 190

Quasi-reversible transformations
quasi-reversible transformations in the $((Bi, Pb)O)_2$-$Sr_{2-x}Ca_xBi_{n-1}Fe_nO_{3n+1+z}$ ($x=0$ and $x=1$) system and their influence on the iron distribution and magnetic properties of the arising phases, 87

Rare earth aluminium garnets
glycothermal synthesis of rare earth aluminium garnets, 146
Rare earth compounds
magnetic state of Dy_3Co, 70
crystal structures and magnetic properties of the lanthanoid nickel antimonides LnNiSb (Ln = La–Nd, Sm, Gd–Tm, Lu), 81
conduction-electron-mediated exchange coupling in heavy rare earth metal compounds RM and RM_3, 107
Rare earths
new layered cuprates $CaBa_2R_2Cu_2Ti_2O_{12}$ and $(R,Ce)_2Ba_2(R,Ca)_2Cu_2Ti_2O_{14}$ (R = Sm,Gd), 102
solid state electrotransport purification of dysprosium, 190
Reaction diffusion
reaction diffusion in the silver–hafnium system, 185
Reduced oxoniobates
synthesis and structural, magnetic and electrical characterisation of the reduced oxoniobates $BaNb_8O_{14}$, $EuNb_8O_{14}$, $Eu_2Nb_5O_9$ and Eu_xNbO_3 ($x=0.7$, 1.0), 24

Samarium
phase transformation of the monochalcogenides SmX (X ≡ S, Se, Te) under high pressure, 143

Secondary phases
metal hydride electrodes based on solid solution type alloy TiV_3Ni_x ($0 \leqq x \leqq 0.75$), 203
Silver-hafnium systems
reaction diffusion in the silver–hafnium system, 185
Solid state electrotransport
solid state electrotransport purification of dysprosium, 190
Strontium
thermodynamics of solid Pd–Sr alloys, 19
Structural investigations
crystal growth and structural investigation of the new quaternary compound $Mo_{1-x}Cr_xAlB$ with $x=0.39$, 5
Structure
phase transformation of the monochalcogenides SmX (X ≡ S, Se, Te) under high pressure, 143
Structure refinement
structure refinement of monoclinic V_3S_4, 136
Superconducting deuteride
comment on the crystal structure of $HfRuD_{3.6}$, 31
Superconductivity
nitridation of niobium–46 wt.% titanium alloy in nitrogen at 1300 °C, 232
Synthesis
comment on the crystal structure of $HfRuD_{3.6}$, 31
magnetic properties of $Gd_xDy_{1-x}Fe_{11.35}Nb_{0.65}$ compounds and their nitrides, 55
preparation, crystal structure and properties of $RuIn_3$, 59
new intermetallic compounds RCo_9Si_4 (R = Pr, Nd) with a tetragonal $NaZn_{13}$-derivative structure, 139
synthesis of new cesium–oxygen graphite intercalation compounds, L1

Tellurides
$Hf_{2.64}Zr_{0.36}Te_4$ and $M^I_xZr_3Te_4$ (M^I = Na, K, Rb, Cs), new compounds of the Nb_3Te_4-structure type, 10
Tellurium
study of the phase equilibria in the ternary gold–gallium–tellurium system, 222
Ternary metallic systems
enthalpy of formation of the [Co + Ga + In] liquid alloy, 197
Thermochemical properties
phase diagram and thermochemical properties of the Zr–Ta system. An assessment based on Gibbs energy modelling, 174
Thermodynamic properties
thermodynamic assessment of the Co–Fe–Gd systems, 33
Thermodynamics
thermodynamics of solid Pd–Sr alloys, 19
Thermodynamic stability
nitridation of niobium–46 wt.% titanium alloy in nitrogen at 1300 °C, 232
Three dimensional network
metal hydride electrodes based on solid solution type alloy TiV_3Ni_x ($0 \leqq x \leqq 0.75$), 203
Titanium
new layered cuprates $CaBa_2R_2Cu_2Ti_2O_{12}$ and $(R,Ce)_2Ba_2(R,Ca)_2Cu_2Ti_2O_{14}$ (R = Sm,Gd), 102
Titanium alloys
nitridation of niobium–46 wt.% titanium alloy in nitrogen at 1300 °C, 232

Vanadium sulfides
structure refinement of monoclinic V_3S_4, 136

Very high temperature calorimetry
enthalpy of formation of the [Co + Ga + In] liquid alloy, 197

X-ray photoelectron spectroscopy
an X-ray photoelectron spectroscopy study of the surface composition of $Co_xFe_{80-x}Si_{10}B_{10}$ metallic glasses, 213

Zirconium
$hf_{2.64}Zr_{0.36}Te_4$ and $M^I_xZr_3Te_4$ (M^I = Na, K, Rb, Cs), new compounds of the Nb_3Te_4-structure type, 10

ZrCrNi
the activation mechanism of Zr-based alloy electrodes, 166